Nov 5, 2025

Since I have serviced almost 30 carts so far, I think I have a decent amount of experience changing batteries on CPS3 Carts hence sharing my process; where some steps are derived from this video and some from Mitsu's guide on youtube. Here it goes:

What you need:

14250 Battery Holder, 1/2AA Battery Holder

Tadiran TL-2150, TL-2150/S 1/2AA Lithium Battery - Cell type

Tadiran TL-5902/P 1/2AA Lithium Battery, 1/AA Size - Axial type

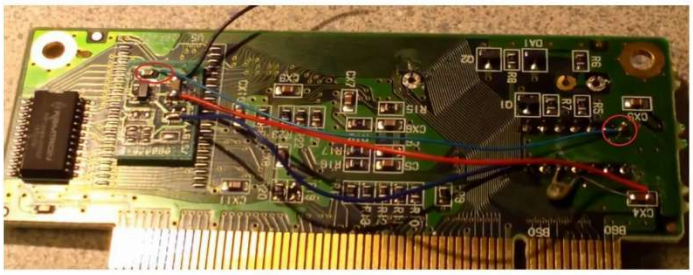
Steps are as:

1. Before you start, test your cartridge to make sure its alive. Add some solder to marked point in red which is in continuity with

positive terminal of the battery. Also add some solder to the ground pad marked in black circle in below image.

2. Connect battery holder cables to these two points as:

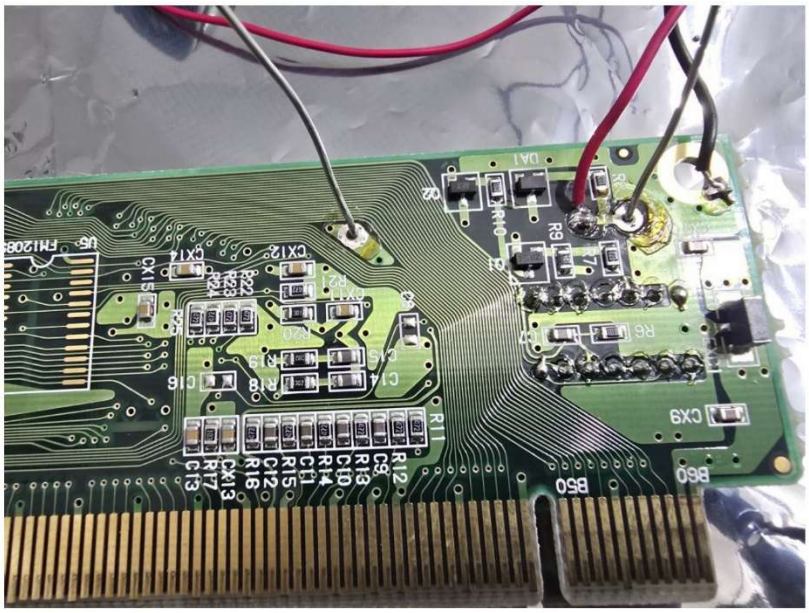
3. If your cart has this mini PCB then attach a jumper wire to these two marked points (from Mitsu's guide - I forgot to take a picture of my cart).



4. Insert the 2AA cell battery into the battery holder

5. Desolder the axial battery from the cartridge.

6. Attach new axial battery and solder the terminals



7. Connect the black jumper cable back to the original point (if cart has mini PCB as mentioned in Step#3)
8. Remove the jumper cable that we added in Step#3 (if cart has mini PCB as mentioned in Step#3)
9. Remove the 2AA cell battery from the battery holder
10. Desolder the battery holder cables from the cartridge PCB.
11. Clean up the residue solder.
12. Add some sort of label to remember the battery service date.

13. All done,test the cartridge, hopefully still alive.

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